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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/669,069	12/20/2000	Leif Hakan Claesson	OCTIV-01	2895
22434	7590 12/16/2004		EXAMINER	
BEYER WEAVER & THOMAS LLP P.O. BOX 778			MICHALSKI, JUSTIN I	
BERKELEY, CA 94704-0778			ART UNIT	PAPER NUMBER
			2644	
			DATE MAILED: 12/16/2004	DATE MAILED: 12/16/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
Office Action Summary		09/669,069	CLAESSON, LEIF HAKAN			
		Examiner	Art Unit			
		Justin Michalski	2644			
Period fo	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
THE - Exter after - If the - If NO - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION. nsions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period we re to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be ting within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	mely filed ys will be considered timely. the mailing date of this communication. ED (35 U.S.C. & 133)			
Status						
2a)⊠	Responsive to communication(s) filed on <u>17 August 2004</u> . This action is FINAL . 2b) This action is non-final. Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Dispositi	on of Claims					
5)⊠ 6)⊠ 7)□	 4) Claim(s) 1-5,7-17 and 19 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) 1-5, 7-10, 13-18 is/are allowed. 6) Claim(s) 11 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. 					
Applicati	on Papers					
 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. 						
Priority u	ınder 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
Attachmen	t(s)					
2) 🔲 Notic 3) 🔲 Inforr	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:	r (PTO-413) ate Patent Application (PTO-152)			

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DETAILED ACTION

Claim Objections

1. Claim 19 objected to because of the following informalities: Claim 19 is dependent on canceled claim 18. Appropriate correction is required.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claim 11 is rejected under 35 U.S.C. 102(e) as being anticipated by Klayman (US Patent 6,285,767) in view of Malladi et al. ("Malladi") (US Patent 5,815,206).

Regarding Claim 11, Klayman discloses a method of dynamically processing an audio signal (Figure 13) comprising: receiving an input audio signal (input to reference 1308) comprised of a plurality of frequency components (Klayman discloses enhancing low-frequency sounds which inherently includes a plurality of frequency components) (Column 1, lines 55-57), each frequency component having associated therewith an amplitude (it is inherent a frequency component will have an associated amplitude); modifying the input audio signal (filter 1310); generating 'n' number of signals from said modified input audio signal (outputs of references 1312, 1313, 1314, and 1315), each of said 'n' signals having an amplitude and further having a unique frequency band associated therewith (each signal output of bandpass filter 1312, 1313, 1314, and 1315)

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will have it's own associated frequency band); modifying the amplitude of the 'n' signals (AGC 1316, 1317, 1318, and 1319); and combining said modified 'n' signals (adder 1320), wherein the amplitude of the plurality of frequencies associated with the audio signal is modified in real-time thereby enhancing the audibility of the audio signal.

Although Klayman does not disclose performing the steps in assembly code for improving the efficiency of processing Klayman does disclose the processor may be implemented as hardware and/or software in a digital processor (Col. 4, lines 29-31). It is well known the art that assembly language is a fast and efficient method of performing functions within a digital system (see Malladi Col. 5, lines 57-58) since it avoids the more complex functions of higher level code. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to use assembly language (code) in order to provide a fast and efficient method of performing digital functions.

Allowable Subject Matter

4. Claims 1-5, 7-10, 13-17 allowed.

Conclusion

5. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Justin Michalski whose telephone number is (703)305-5598. The examiner can normally be reached on 8 Hours, 5 day/week.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bill Isen can be reached on (703)305-4386. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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JIM

PRIMARY EXAMINER